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ELECTRICAL DEMOLITION NOTES

GENERAL: DEMOLITION DRAWINGS ARE BASED ON EXISTING PLANS AND FIELD INVESTIGATION PRIOR TO DEMOLITION. VISIT THE EXISTING BUILDING PRIOR TO BID IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND IN ORDER TO AVOID CONFLICTS.

DASHED ITEMS: ALL ITEMS SHOWN DASHED ON DEMOLITION PLANS ARE EXISTING AND SHALL BE REMOVED.

SOLID ITEMS: ALL ITEMS SHOWN SOLID ON DEMOLITION PLANS ARE EXISTING TO REMAIN.

CIRCUITING TO REMAIN: EXISTING CIRCUITING TO REMAIN SHALL BE REROUTED OR RECONNECTED, AS REQUIRED, WHERE AFFECTED BY NEW WORK IN ORDER TO MAINTAIN CONTINUITY OF THE CIRCUIT.

REUSE OF EXISTING CIRCUITRY: EXISTING CIRCUITRY SERVING LIGHTING FIXTURES AND/OR RECEPTACLES FOR A GIVEN AREA SHALL BE REUSED TO THE FULLEST EXTENT POSSIBLE TO SERVE THE NEW LAYOUT. PROVIDE CIRCUIT MODIFICATIONS INDICATED OR AS OTHERWISE REQUIRED TO MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT REMAIN.

EXISTING CONDUIT: ALL EXISTING CONDUITS AND WIRING THAT WILL NOT BE REUSED SHALL BE REMOVED WHERE THEY WILL BE EXPOSED UPON COMPLETION OF NEW WORK. EXISTING CONDUIT TO REMAIN CONCEALED IN WALLS SHALL BE ABANDONED. EXISTING CONDUIT TO REMAIN BELOW FLOOR SLAB SHALL BE CUT OFF ONE INCH BELOW ROUGH FLOOR AND GROUTED FLUSH. ALL EXISTING WIRING IN CONDUITS TO BE ABANDONED SHALL BE DISCONNECTED FROM POWER SOURCE AND REMOVED.

REPAIR DAMAGE: EXERCISE CARE IN REMOVAL OF DEMOLITION ITEMS. REPAIR, AT NO ADDITIONAL COST TO THE OWNER, ANY DAMAGE CAUSED TO EXISTING CONSTRUCTION AND/OR EQUIPMENT TO REMAIN.

ASSOCIATED APPURTENANCES: REMOVE ALL ELECTRICAL APPURTENANCES (DISCONNECTS, STARTERS, WIRING, CONDUIT, ETC.) ASSOCIATED WITH EQUIPMENT TO BE REMOVED BY OTHERS.

KNOCKOUT PLUGS AND COVERS: ALL CONDUIT REMOVED SHALL BE REMOVED IN ITS ENTIRETY, INCLUDING FITTINGS, MOUNTING DEVICES, MOUNTING HARDWARE, ETC. PROVIDE CONDUIT PLUGS AND BLANKS FOR ALL OPENINGS CREATED BY THE REMOVAL OF CONDUIT. PROVIDE BLANK COVER PLATES FOR ALL OPENED OUTLET BOXES CREATED BY THE REMOVAL OF EQUIPMENT AND/OR DEVICES

DEMOLISHED MATERIALS: ALL MATERIALS REMOVED UNDER DEMOLITION, NOT TO BE RELOCATED OR DESIGNATED TO BE TURNED OVER TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED COMPLETELY FROM THE SITE.

SCHEDULE OUTAGES: ALL WORK AND ALL POWER OUTAGES IN THE EXISTING BUILDING SHALL BE SCHEDULED AT TIMES CONVENIENT TO THE OWNER.

NOTIFICATION: NOTIFY THE OWNER PRIOR TO TURNING OFF ANY CIRCUITS.

GENERAL ELECTRICAL NOTES

GENERAL: UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL WORK SHOWN ON ELECTRICAL DRAWINGS IS NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

HEALTHCARE: THIS WILL BE A HEALTHCARE FACILITY. THE NEC ART. 517 SHALL APPLY.

COORDINATION: COORDINATE AND COOPERATE WITH ALL TRADES ON THE PROJECT. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS INCLUDING CIVIL, STRUCTURAL, ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE AND ADJUST ACCORDINGLY AS DIRECTED BY THE ENGINEER.

AS-BUILT DRAWINGS: SECURE AN EXTRA SET OF ELECTRICAL DRAWINGS TO BE KEPT ON SITE AND MARK, DAILY, THE DRAWINGS IN RED AS THE PROJECT PROGRESSES IN ORDER TO KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK SHOWN ON THE DRAWINGS AND THE WORK WHICH IS ACTUALLY INSTALLED. THESE MARKED DRAWINGS SHALL REFLECT ANY AND ALL CHANGES AND REVISIONS TO THE ORIGINAL DESIGN WHICH EXISTS IN THE COMPLETED WORK. DELIVER THE MARKED DRAWINGS TO THE ENGINEER AT PROJECT CLOSE-OUT.

TESTS: TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR DEVICES. PERFORM INSULATION RESISTANCE TESTS ON ALL WIRING #8 OR LARGER TO INSURE THAT ALL PORTIONS ARE FREE FROM SHORT-CIRCUITS AND GROUNDS.

INSPECTIONS: ARRANGE ALL NECESSARY INSPECTIONS. DELIVER ALL REQUIRED INSPECTION CERTIFICATES TO THE OWNER.

GROUNDING: PROVIDE GROUNDING IN ACCORDANCE WITH THE NEC FOR THE ENTIRE ELECTRICAL SYSTEM INCLUDING EQUIPMENT FRAMES CONDUITS, SWITCHES, CONTROLLERS, WIRE-WAYS, NEUTRAL CONDUCTORS, AND OTHER EQUIPMENT. PROVIDE A GROUNDING CONDUCTOR IN ALL POWER CONDUITS.

LABELS: PROVIDE LABELS FOR ALL SWITCHBOARDS, SWITCHBOARD BREAKERS, PANELBOARDS, CABINETS, SAFETY SWITCHES. MOTOR-DISCONNECT SWITCHES, AND MOTOR CONTROLLERS. LABELS SHALL BE MACHINE ENGRAVED, LAMINATED PLASTIC, PERMANENTLY ATTACHED WITH SELF-TAPPING SCREWS OR RIVETS. DO NOT USE SELF-ADHESIVE LABELS.

J-BOX LABELING: LABEL ALL JUNCTION BOXES WITH PERMANENT MARKER IDENTIFYING CIRCUIT NUMBER AND PANELBOARD OF CIRCUITS WITHIN.

PANEL DIRECTORY: PROVIDE TYPEWRITTEN PANELBOARD DIRECTORY CARD IN EACH PANELBOARD WITH CIRCUIT LOAD INFORMATION AND ROOM NUMBER CLEARLY IDENTIFIED. USE ACTUAL ROOM NUMBERS IN THE BUILDING, NOT THE ROOM NUMBERS SHOWN ON THE CONTRACT DRAWINGS, AS THEY ARE OFTEN DIFFERENT.

CONDUCTORS: IN SITUATIONS WHERE CONDUCTOR SIZES AND/OR QUANTITIES OF PARALLEL SETS HAVE BEEN INCREASED DUE TO VOLTAGE DROP OR FOR OTHER REASONS, CONTRACTOR SHALL PROVIDE THE APPROPRIATE LUG SIZES/QUANTITIES WITHIN THE EQUIPMENT CONNECTED (SWITCHBOARD, PANELBOARD, DISCONNECT SWITCH, TRANSFER SWITCH ETC.) TO PERMIT SATISFACTORY CONNECTION OF THE INDICATED CONDUCTORS. WHERE SUFFICIENT LUG SIZES AND/OR QUANTITIES CANNOT BE PROVIDED TO ACCOMMODATE THE CONDUCTORS INDICATED, THEN PROVIDE REDUCING ADAPTERS, PIN TERMINALS, OR A JUNCTION BOX TO SPUCE LARGER CONDUCTORS TO APPROPRIATELY SIZED SMALLER CONDUCTORS TO FIT INTO THE LUGS PROVIDED. ALL CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE NEC.

MOTOR COORDINATION: MOTORS, MOTOR STARTERS, CONTROLLERS, INTEGRAL DISCONNECT SWITCHES, AND CONTACTORS SHALL BE PROVIDED WITH THEIR RESPECTIVE PIECES OF EQUIPMENT BY THE EQUIPMENT SUPPLIER. COMMUNICATE WITH THE TRADES PROVIDING THE EQUIPMENT, VERIFYING ALL REQUIREMENTS, PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED THEREIN, AND INSTALL MOTOR STARTERS.

MOTOR DISCONNECTS: ALL MOTORS SHALL HAVE DISCONNECTING MEANS.

MOTOR CONTROLLERS: ALL 3-PHASE MOTORS SHALL HAVE MAGNETIC MOTOR CONTROLLERS WITH SOLID STATE OVERLOAD RELAY PROTECTION. THE SOLID STATE OVERLOAD RELAY SHALL HAVE PHASE LOSS AND PHASE OVERCURRENT PROTECTION WITH AUTOMATIC RESET UPON RETURN OF NORMAL POWER.

MOTOR FUSE PROTECTION: WHERE FUSE PROTECTION IS SPECIFICALLY REQUIRED BY THE EQUIPMENT MANUFACTURER, PROVIDE FUSED SWITCHES IN LIEU OF NON-FUSED SWITCHES OR IN LIEU OF ENCLOSED CIRCUIT BREAKERS, OR OTHER DEVICES INDICATED.

REDUCED VOLTAGE STARTERS: REDUCED VOLTAGE STARTERS OR ELECTRONIC SOFT START CONTROLLERS OR VARIABLE FREQUENCY DRIVES (VFD) SHALL BE PROVIDED FOR ALL MOTORS 40HP AND LARGER AT 480 VOLTS, AND 20 HP AND LARGER AT 208 VOLTS.

CONNECTION DETAILS: SECURE APPROVED SHOP DRAWINGS SHOWING WIRING DIAGRAMS, ROUGH-IN AND HOOK UP DETAILS FROM OTHER INVOLVED CONTRACTORS FOR EQUIPMENT WHICH MUST BE CONNECTED ELECTRICALLY.

COORDINATION DETAILS: MECHANICAL EQUIPMENT WILL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE. COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND DETERMINE THE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS.

WORKING CLEARANCE: COORDINATE FINAL LOCATIONS OF ELECTRICAL EQUIPMENT WITH MECHANICAL DUCTWORK, PIPING, ETC. AND ASSURE WORKING CLEARANCE REQUIRED BY NEC WILL BE MET. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF EQUIPMENT PROVIDED AND INSTALLED BY OTHER TRADES.

STARTER MOUNTING: WHERE AN INDIVIDUALLY MOUNTED SAFETY SWITCH, STARTER OR CIRCUIT BREAKER IS SHOWN ADJACENT TO ITS RESPECTIVE LOAD AND NOT MOUNTED ON A WALL, PROVIDE ALL SUPPORTS, BRACKETS, ANCHORING, ETC. NECESSARY TO PROPERLY SUPPORT THE DEVICE.

LIGHTING ARRANGEMENT: ARRANGE LIGHTING FIXTURES IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.

LIGHTING COORDINATION: COORDINATE LIGHTING FIXTURES WITH GRILLES, DIFFUSERS, SPRINKLER HEADS, AND ACCESS PANELS, ETC. PROVIDE FIXTURE MOUNTING BRACKETS, ACCESSORIES, PLASTER FRAMES, ETC.. SUITABLE FOR THE CEILING TYPES INDICATED ON THE ARCHITECTURAL PLANS.

MATERIAL COORDINATION: VERIFY CEILING AND WALL CONSTRUCTION AND MATERIAL PRIOR TO ORDERING LIGHT FIXTURES OR OTHER DEVICES TO INSURE PROPER FIXTURE OR DEVICE IS FURNISHED TO MATCH CONSTRUCTION.

MOUNTING HEIGHTS: MOUNTING HEIGHTS INDICATED ARE FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE WIRING DEVICE UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS OF LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURE UNLESS OTHERWISE NOTED.

DEVICE LOCATIONS: COORDINATE LOCATIONS OF SWITCHES, RECEPTACLES, AND TELE/DATA OUTLETS WITH OTHER WALL MOUNTED DEVICES SUCH AS THERMOSTATS AND CONTROL STATIONS.

EWG RECEPTACLES: RECEPTACLES FOR ELECTRIC WATER COOLERS (EWG) SHALL BE INSTALLED OUT OF VIEW AND BEHIND THE EWG ENCLOSURE. VERIFY THE MOUNTING HEIGHT WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

DEVICE COORDINATION: THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS WITH DEVICE LOCATIONS PRIOR TO ROUGH-IN OF OUTLET BOXES.

BARRIERS: WHERE A MULTIPLE-GANG BOX HAS CIRCUITS OF DIFFERENT VOLTAGES OR SYSTEMS WHICH ARE REQUIRED TO BE SEPARATED, PROVIDE THE CODE-REQUIRED SEPARATION USING A FULL HEIGHT AND DEPTH BARRIER PLATE.

FIRE PROOFING: FOR ANY WALL OR FLOOR PENETRATIONS THROUGH FIRE-RATED STRUCTURES PROVIDE FIRE-PROOFING TO SEAL ALL THE PENETRATIONS AFTER THE CONDUIT HAS BEEN INSTALLED. FIRE PROOFING FOR PENETRATIONS SHALL BE UL APPROVED PER THE PENETRATION MADE IN ORDER TO MAINTAIN FIRE-RATED INTEGRITY OF THE STRUCTURE.

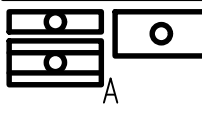
CLEAN UP: ON PROJECT CLOSE-OUT CLEAN ALL ELECTRICAL DEVICES, LIGHTING FIXTURES, LAMPS AND LENSES, AND REMOVE ALL PAINT SPATTERS FROM DEVICES, FIXTURES AND PLATES. REPLACE ALL INOPERATIVE LAMPS.

FIRE ALARM COORDINATION: THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM PROVIDER AND PROVIDE POWER CONNECTIONS TO ALL COMPONENTS WHETHER SHOWN OR NOT. MANUFACTURERS REQUIRE VARYING QUANTITIES OF POWER CONNECTIONS FOR EQUIPMENT LIKE EXPANDER PANELS AND POWER SUPPLIES. THESE DEVICES ARE DEPENDENT UPON THE SPECIFIC MANUFACTURERS SYSTEM. THE FIRE ALARM SYSTEM SUPPLIER SHALL NOTIFY THE OTHER APPROPRIATE SUB-CONTRACTORS ABOUT THESE REQUIREMENTS AND CONNECTION SHALL BE PROVIDED AS PART OF THE PROJECT.

HVAC DAMPERS, ETC: CONTRACTORS SHALL COORDINATE WITH THE EQUIPMENT AND SYSTEM BEING PROVIDED AND PROVIDE POWER CONNECTIONS ACCORDINGLY. THESE CONNECTIONS SHALL BE FOR FIRE/SMOKE DAMPERS, DDC CONTROL DEVICES, ETC. CONTRACTOR SHALL COORDINATE THE VOLTAGE REQUIREMENTS AND PROVIDE ALL NECESSARY CONNECTIONS, COMPONENTS, ETC. THIS INCLUDES TRANSFORMERS, BOXES, ETC.

ELECTRICAL LEGEND

LIGHTING



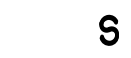
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EXIT LIGHTING FIXTURE, WITH DIRECTIONAL ARROWS AS INDICATED WITH BATTERY PACK - CONNECT AHEAD OF LOCAL SWITCH.



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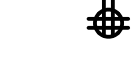
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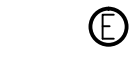
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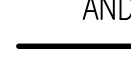
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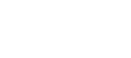
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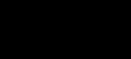
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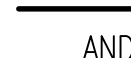
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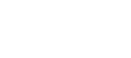
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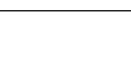
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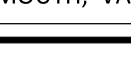
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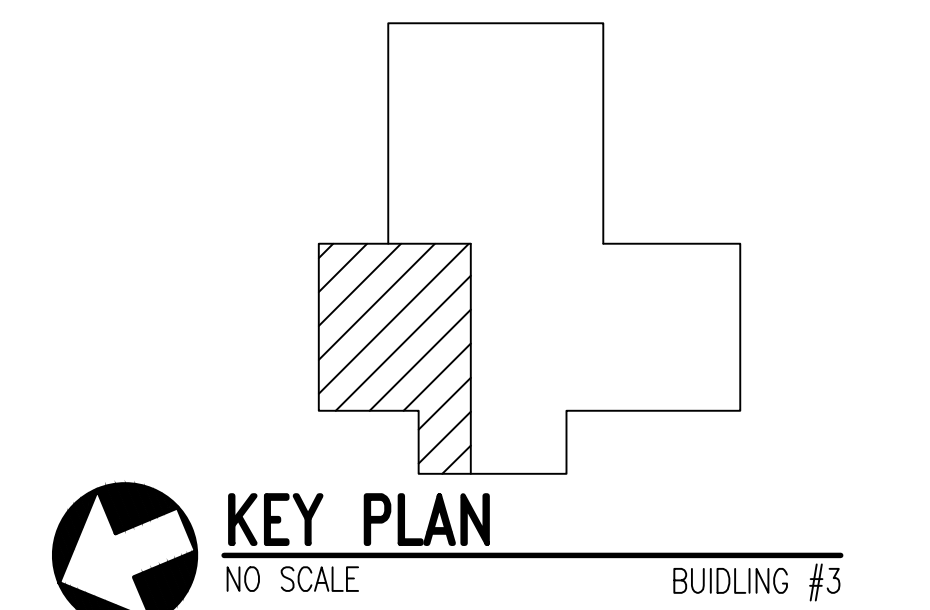
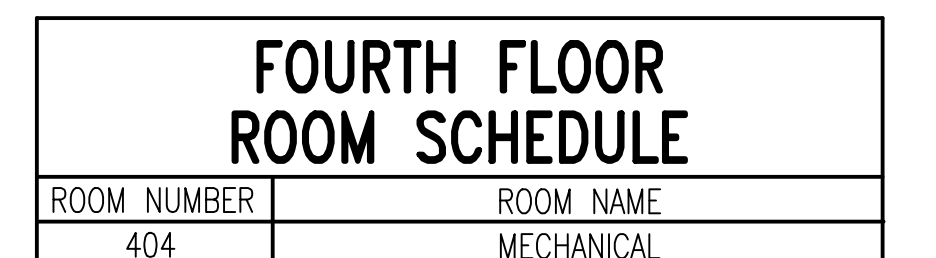


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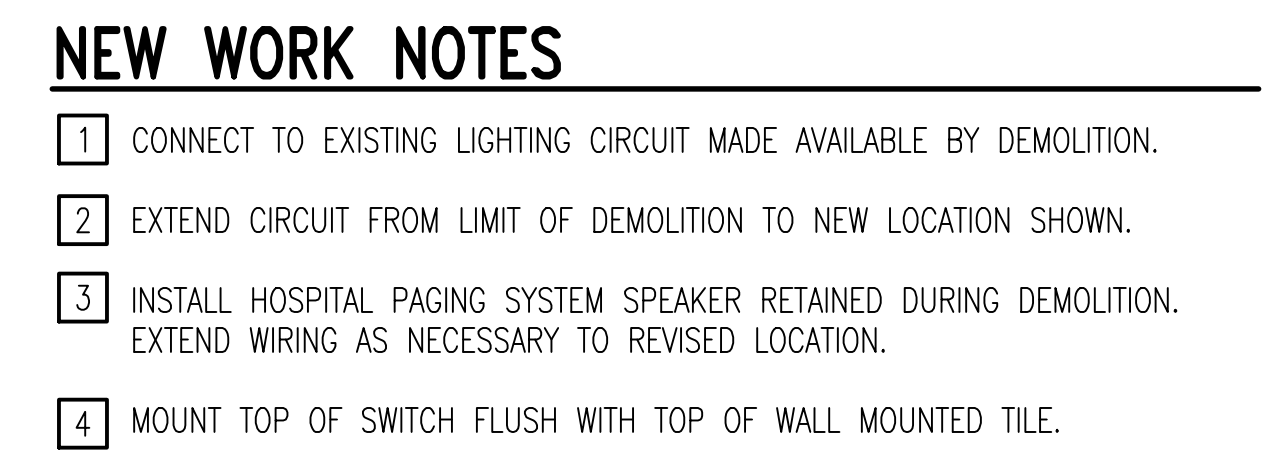
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TELECOMMUNICATIONS



BUILDING #3

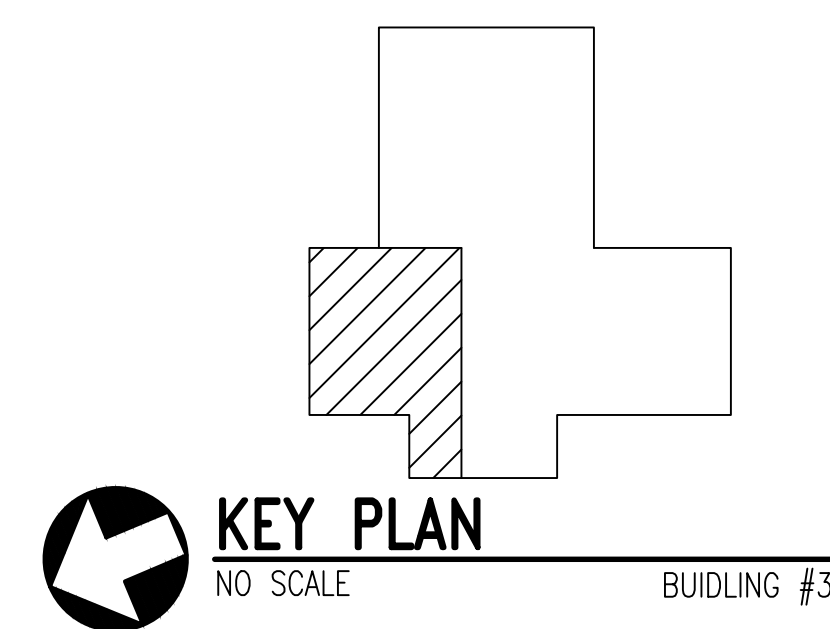
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THIRD FLOOR ROOM SCHEDULE	
ROOM NUMBER	ROOM NAME
300	CORRIDOR
300-A	VESTIBULE
300-B	WOMENS TOILET
301	MALE TOILET
302	HOUSE KEEPING
303	NAVIGATION ROOM
304	AUDITORIUM
304-A	KITCHEN
304-B	STORAGE
304-C	STORAGE
304-D	STAGE
305	STAIR

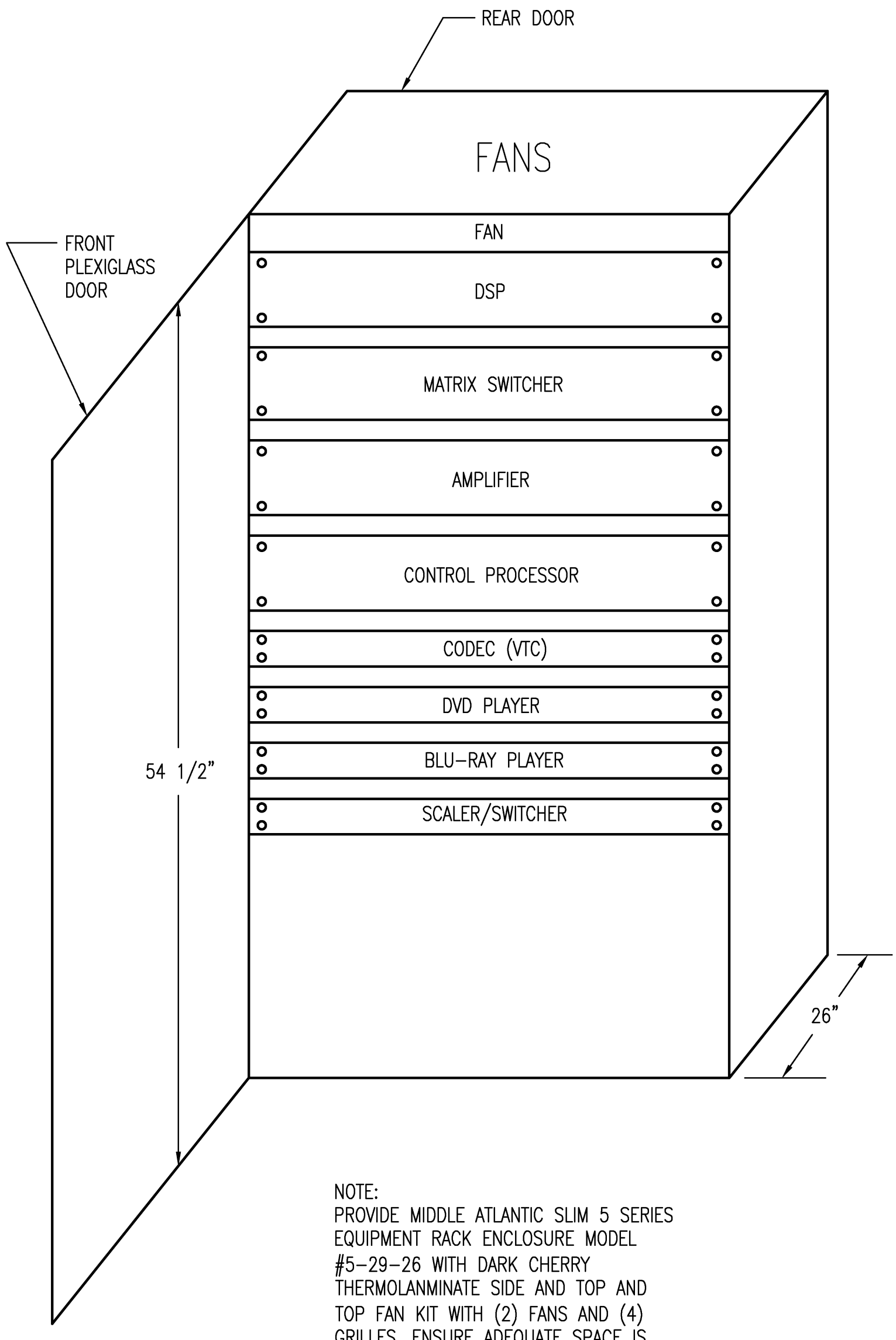
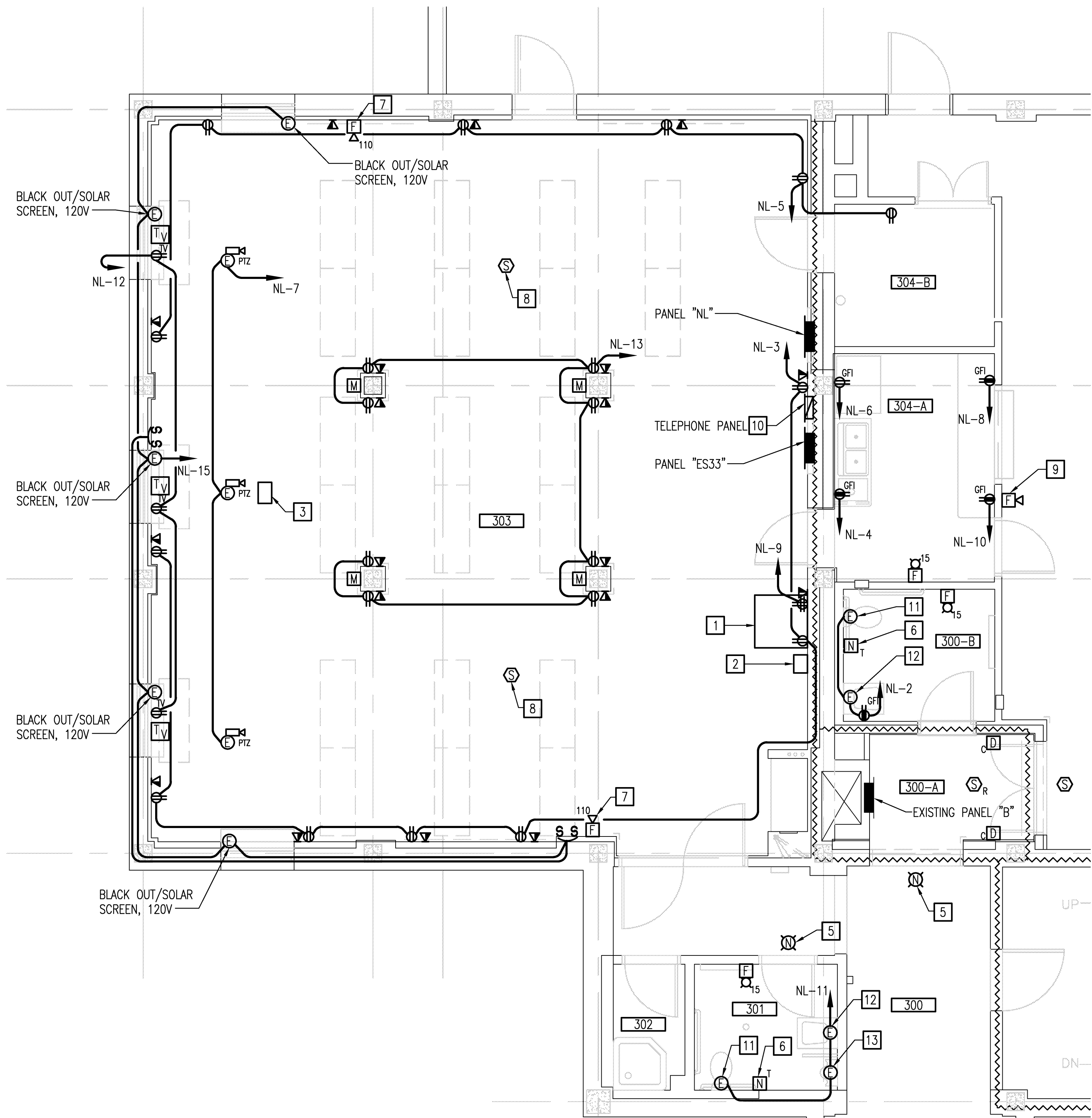


BUILDING #3

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NEW WORK NOTES

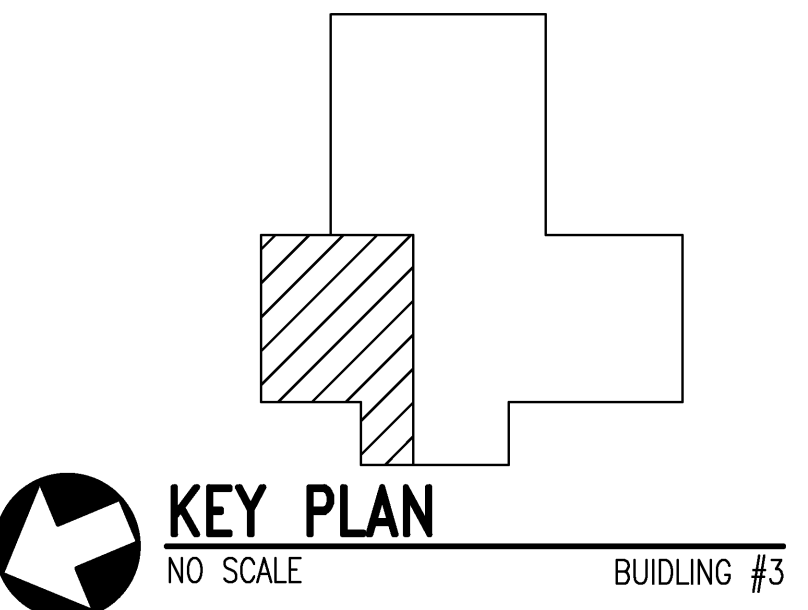
- [1] AUDIO-VISUAL CONTROL CONSOLE LOCATION PROVIDE WITH FRONT AND REAR ACCESS DOORS. SEE DETAIL THIS SHEET.
- [2] PORTABLE A/V SYSTEM WALL DOCKING STATION.
- [3] PODIUM WITH A/V DOCKING STATION, COMPUTER INTERFACE, AND MICROPHONE. COORDINATE INSTALLATION OF EQUIPMENT WITH PODIUM PROVIDER. VA FURNISHED AND CONTRACTOR INSTALLED PODIUM. PODIUM SHALL BE PROVIDED WITH A/V DOCKING STATION, COMPUTER INTERFACE, AND MICROPHONE. VA PODIUM PROVIDER SHALL COORDINATE WITH GENERAL CONTRACTOR WITH ALL A/V EQUIPMENT. PODIUM PROVIDER SHALL FURNISH PODIUM WITH ALL INTERFACE AND DOCKING EQUIPMENT LISTED.
- [4] MOUNT TOP OF RECEPTACLE FLUSH WITH TOP OF WALL MOUNTED TILE.
- [5] INSTALL NURSE CALL LIGHT FIXTURE RETAINED DURING DEMOLITION. EXTEND WIRING AS REQUIRED.
- [6] PROVIDE SYSTEM COMPATIBLE EMERGENCY NURSE CALL PULL STATION, CONNECT TO NURSE CALL CIRCUIT RETAINED FROM DEMOLITION, EXTEND CIRCUITING AS REQUIRED.
- [7] PROVIDE SYSTEM COMPATIBLE FIRE ALARM HORN/STROBE. PROVIDE WIRING PER MANUFACTURER'S INSTRUCTIONS IN 3/4" MINIMUM. CONTRACTOR SHALL DETERMINE QUANTITY AND SIZE OF ENCLOSURE AND JUNCTION BOXES TO COMPLY WITH MANUFACTURER'S RECOMMENDED INSTALLATION REQUIREMENTS. DO NOT LOAD ANY CIRCUIT BEYOND 80% OF RATED CAPACITY. ADD ADDITIONAL CIRCUITS AS NECESSARY. PROVIDE NOTIFICATION EXTENDER PANELS, POWER SUPPLIES, ETC. AS REQUIRED. FIRE ALARM TRANSponder FOR THIS BUILDING IS LOCATED IN THE BASEMENT EQUIPMENT ROOM. SYSTEM IS AS EST ADDRESSABLE SYSTEM.
- [8] INSTALL SMOKE DETECTOR RETAINED DURING DEMOLITION. EXTEND WIRING AS REQUIRED.
- [9] INSTALL FIRE ALARM HORN/STROBE RETAINED DURING DEMOLITION. EXTEND WIRING AS REQUIRED.
- [10] INSTALL TELEPHONE PANEL AND EXTEND WIRING AS REQUIRED RETAINED DURING DEMOLITION.
- [11] INFRARED WATER CLOSET CONTROL CONNECTION. COORDINATE EXACT MOUNTING LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- [12] INFRARED LAVATORY CONTROL CONNECTION. COORDINATE EXACT MOUNTING LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- [13] INFRARED URINAL CONTROL CONNECTION. COORDINATE EXACT MOUNTING LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.



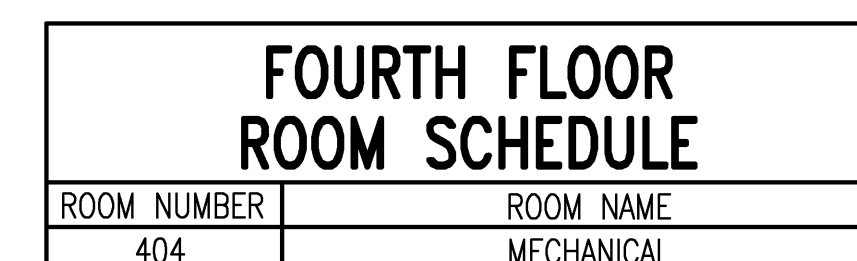
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304-A	KITCHEN
304-B	STORAGE
304-C	STORAGE
304-D	STAGE
305	STAIR

ELECTRICAL NEW WORK THIRD FLOOR PLAN - POWER
SCALE: 1/4" = 1'-0"

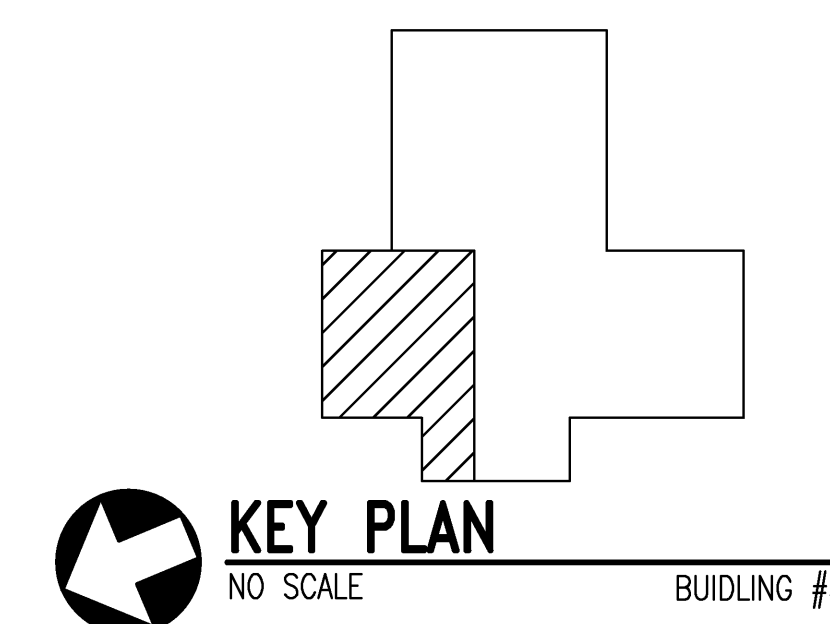
A/V CONTROL CONSOLE ELEVATION PLAN
NO SCALE



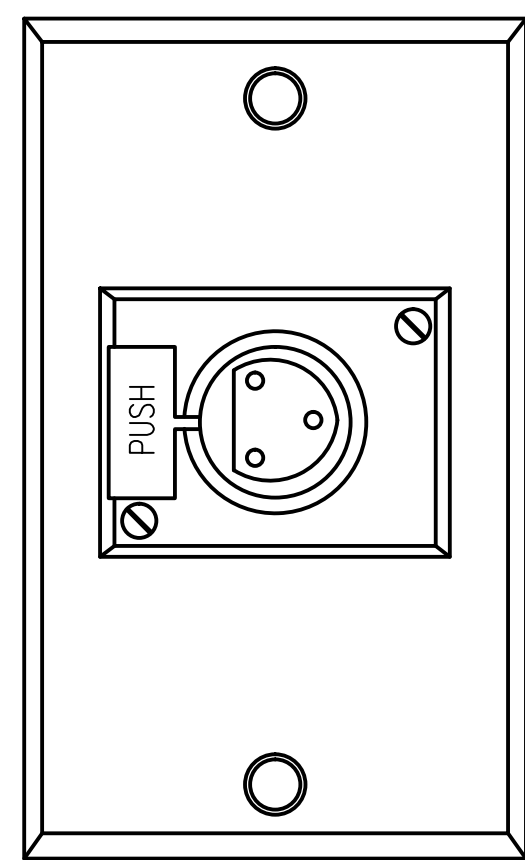
CONSULTANTS:  MECHANICAL ELECTRICAL ENGINEERS VIRGINIA BEACH, VA - 757-499-7223	ARCHITECT:  441 WASHINGTON STREET PORTSMOUTH, VA 23704 (P) 757.393.9900 (F) 757.393.9907	Project Title VETERAN'S ADMINISTRATION HOSPITAL - HIGH TECH CONFERENCE ROOM RENOVATION	Project Number 565-11-101	Office of Construction and Facilities Management 		
Approved Project Director	Location FAYETTEVILLE, NORTH CAROLINA	Building Number 3				
Date 05 - 14 - 12	Checked GML	Drawn TKH				
Revisions:	Date	Dwg. 33 of 36	ES102			



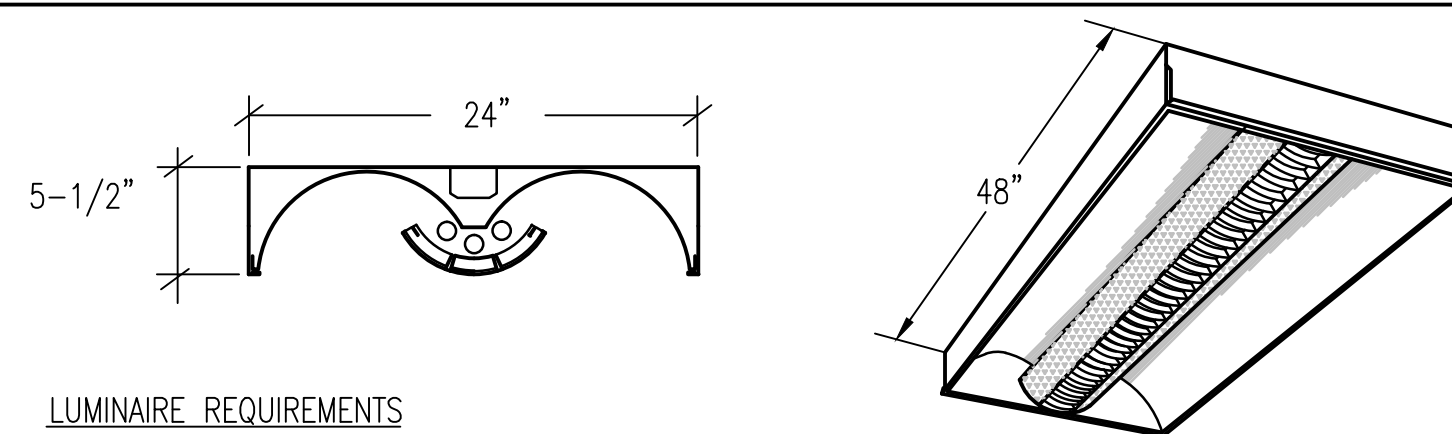
BUILDING #3



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MICROPHONE INPUT JACK
NO SCALE



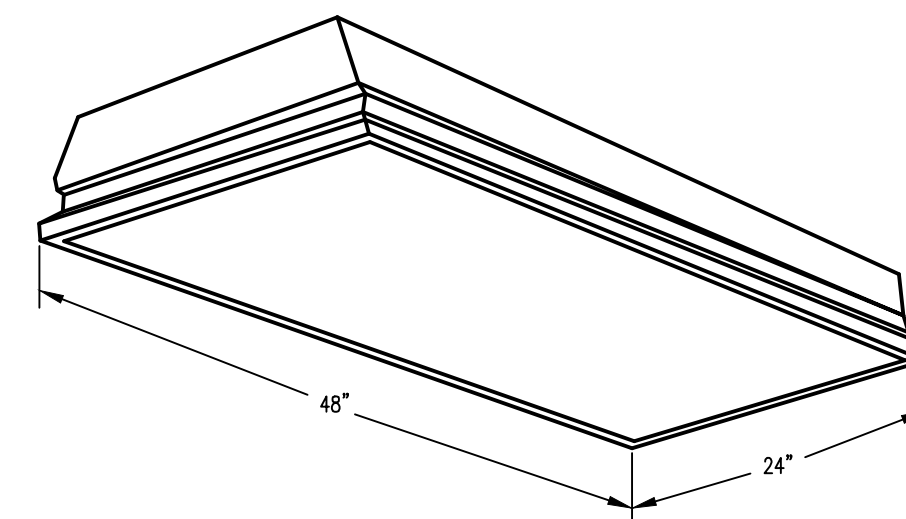
LUMINAIRE REQUIREMENTS

1. HOUSING SHALL BE ONE PIECE DIE-FORMED COU GAUGE STEEL. CHEMICALLY TREATED FOR RUST PREVENTION AND PAINT ADHESION. ENDS SHALL BE SECURED WITH SCREWS OR WELDED..
2. HOUSING SHALL BE PAINTED AFTER FABRICATION WITH MINIMUM 85% REFLECTANCE WHITE ENAMEL.
3. BALLAST SHALL BE ELECTRONIC WITH THD <20%. HIGH POWER FACTOR ($\geq .95$) RAPID START CLASS WITH SOUND RATING OF "A". PROVIDE BALLAST WITH "FINGER SAFE" DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73(G).
4. PROVIDE MOUNTING TRIM AND HARDWARE COMPATIBLE WITH CEILING MATERIAL.
5. MAXIMUM DEPTH OF HOUSING SHALL BE 4-3/8".
6. REFLECTORS - DIE-FORMED STEEL. FINISH SHALL BE HIGH REFLECTANCE/LOW GLARE MATTE WHITE.
7. LAMP COVERSHALL BE PERFORATED COU GAUGE STEEL, 27 % OPEN, .045" DIA HOLES, INTEGRATED WHITE OPAL ACRYLIC DIFFUSING LENS. END CAPS SHALL BE DIE-FORMED AND WELDED 20 GAUGE STEEL. FINISH SHALL BE MATTE WHITE. LAMPS SHALL BE ACCESSIBLE BY SWINGING LIFT AND SHIFT COVER DOWN FROM EITHER SIDE; LAMP COVER SHALL BE RETAINED BY HINGE PINS.
8. ENCLOSURES WHITE ACRYLIC DIFFUSING ONE PIECE ENCLOSURE HINGES 045" AS AN ASSEMBLY FOR ACCESS TO LAMPS AND BALLASTS FROM BELOW FOR TOOLLESS ACCESS TO LAMPS AND BALLASTS. GUIDE POST SPRING LOADED LATCHES ALLOW ACCESS WITHOUT TOOLS.
9. FIXTURE SHALL BE UL LISTED.
10. PROVIDE DIMMING BALLAST.
11. PROVIDE BATTERY BACK-UP BALLAST CAPABLE OF OPERATING (2) LAMPS AT A MINIMUM OF 20% OF THE LAMPS RATED LUMEN OUTPUT FOR A MINIMUM OF 90 MINUTES FOR FIXTURE SHOWING


DETAIL BASED ON LITHONIA, "AVANTE" SERIES (RESOURCE LIGHTING)

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
	3	32W T8	90	120/277	RECESSED, CEILING


2'X4' RECESSED DIRECT/INDIRECT TROFFER



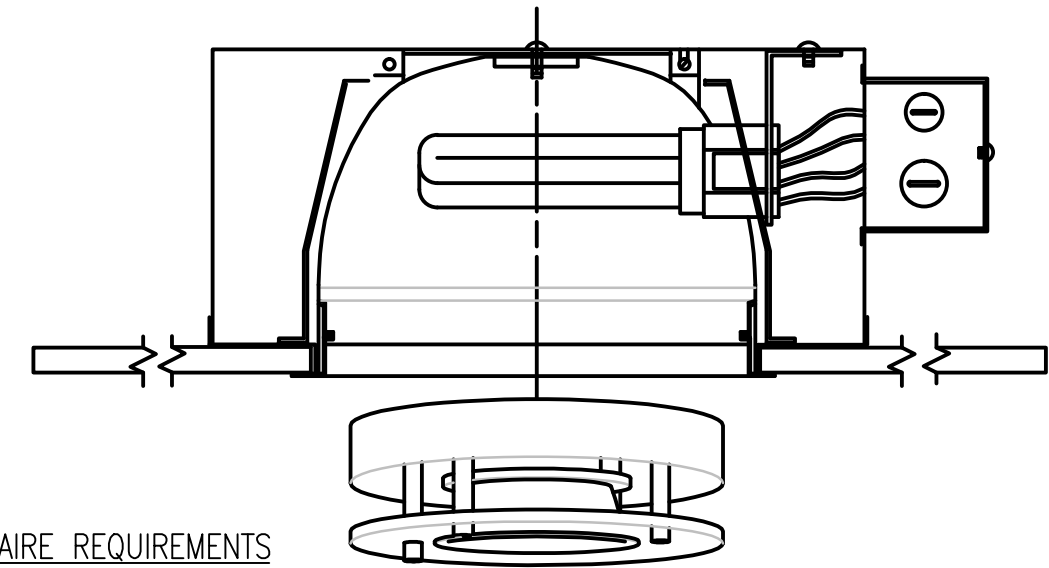
LUMINAIRE REQUIREMENTS

1. HOUSING SHALL BE CODE GAUGE STEEL, CHEMICALLY TREATED FOR RUST PREVENTION AND PAINT ADHESION. ENDS SHALL BE SECURED WITH SCREWS OR WELDED.
2. HOUSING SHALL BE PAINTED WITH MINIMUM 85% REFLECTANCE WHITE ENAMEL.
3. BALLAST SHALL BE ELECTRONIC WITH THD <20%, HIGH POWER FACTOR ($\geq .95$) RAPID START CLASS P WITH SOUND RATING OF "A", PROVIDE 2 BALLASTS FOR MULTI-LEVEL SWITCHING. PROVIDE BALLAST WITH "FINGER SAFE" DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73(G).
4. PROVIDE MOUNTING TRIM AND HARDWARE COMPATIBLE WITH CEILING MATERIAL.
5. MAXIMUM DEPTH OF HOUSING SHALL BE 6".
6. LENS DOOR SHALL BE 0.032" MINIMUM THICKNESS STEEL, ASSEMBLED WITH SCREWS FOR LENS REPLACEMENT. PROVIDED LIGHT TIGHT FIT WITHOUT MOVEABLE BAFFLES. GASKETING SHALL NOT BE A MEANS OF ACHIEVING LIGHT TIGHT DOOR.
7. LENS SHALL BE 0.125", PATTERN 12, PRISMATIC 100% ACRYLIC.
8. SUPPORT WITH MINIMUM OF 2 WIRES INDEPENDENT OF CEILING SYSTEM TO BUILDING STRUCTURE.
9. PROVIDE BATTERY BACK-UP BALLAST CAPABLE OF OPERATING (2) LAMPS AT A MINIMUM OF 20% OF THE LAMPS RATED LUMEN OUTPUT FOR A MINIMUM OF 90 MINUTES FOR FIXTURE SHOWING 

DETAIL BASED ON LITHONIA, "SP" SERIES

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
	3	32W T8	90	120/277	RECESSED, CEILING


2'X4' RECESSED LENSED FLUORESCENT TROFFER



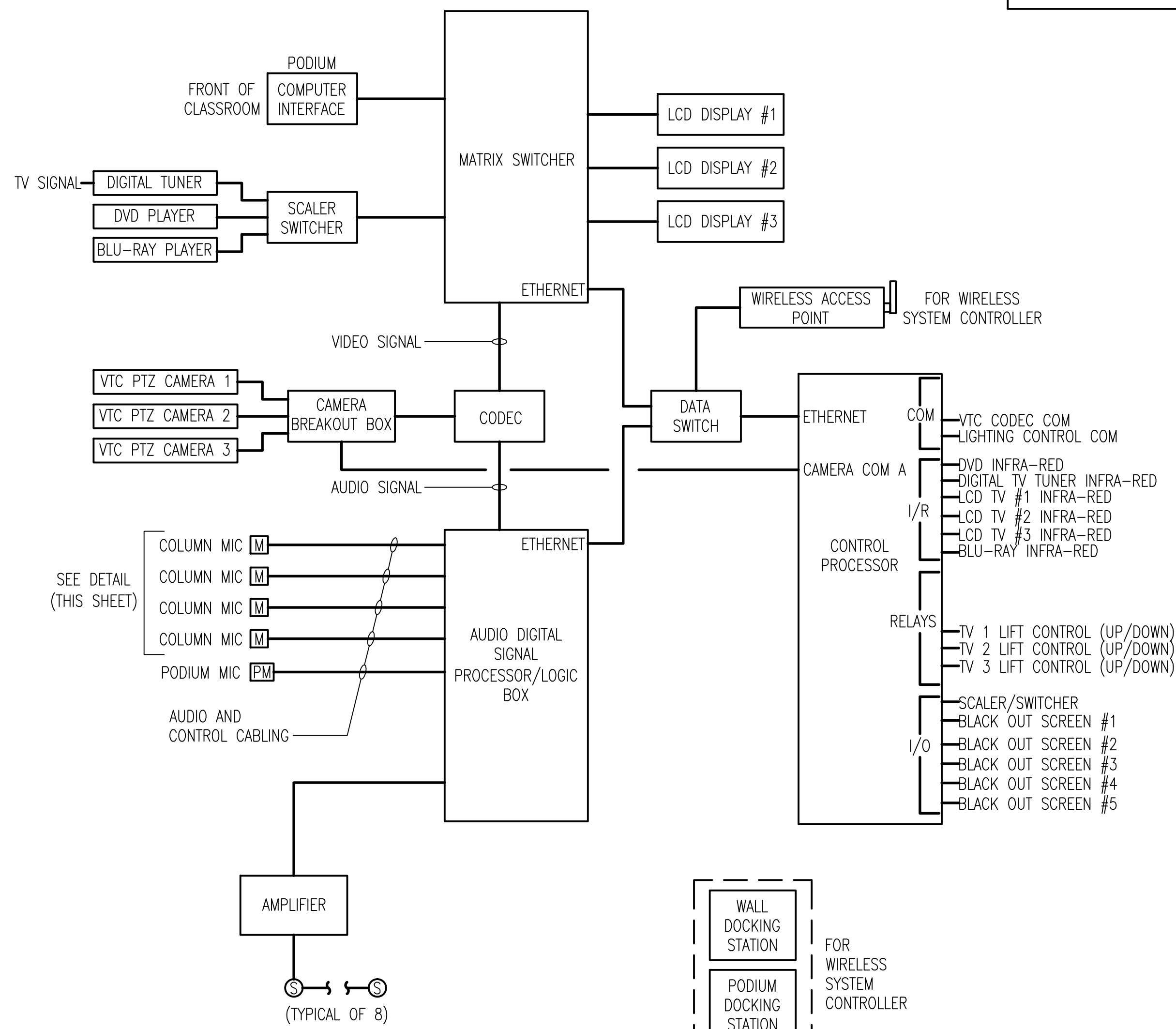
LUMINAIRE REQUIREMENTS

1. PORCELAIN SOCKET
2. STEEL LATCH FOR SECURING REFLECTOR.
3. ADJUSTABLE STEEL SUPPORT FRAME AND EXPANDABLE MOUNTING BARS.
4. SPUN ALUMINUM REFLECTOR WITH ANODIZED NATURAL ALUMINUM FINISH. REFLECTOR SHALL BE EASILY REMOVABLE TO ALLOW ACCESS TO THE BALLAST AND JUNCTION BOX.
5. CEILING SYSTEM - COORDINATE CEILING TRIM WITH ACTUAL CEILING TYPE (GYPSUM WALLBOARD/PLASTER VERSUS ACOUSTICAL TILE PANEL). PROVIDE FIXTURE MOUNTING FRAME ASSEMBLY SPECIFICALLY DESIGNED FOR CEILING GRIDS WHEN CEILING IS ACOUSTICAL TILE.
6. FACTORY INSTALLED CIRCUITRY PROVIDED IN ACCORDANCE WITH UL STANDARDS.
7. PREWIRED OUTLET BOX WITH HIGH POWER FACTOR, CLASS P ELECTRONIC, LOW HARMONIC, UNIVERSAL VOLTAGE BALLAST, ABLE TO OPERATE 26W, 32W AND 42 WATT TRIPLE TUBE (TRT) LAMPS. OUTLET BOX SHALL BE APPROVED FOR FEED-THROUGH CIRCUITRY.
8. PROVIDE WITH DECORATIVE DROP RING, COORDINATE COLOR WITH ARCHITECT.
9. PROVIDE DIMMING BALLAST.

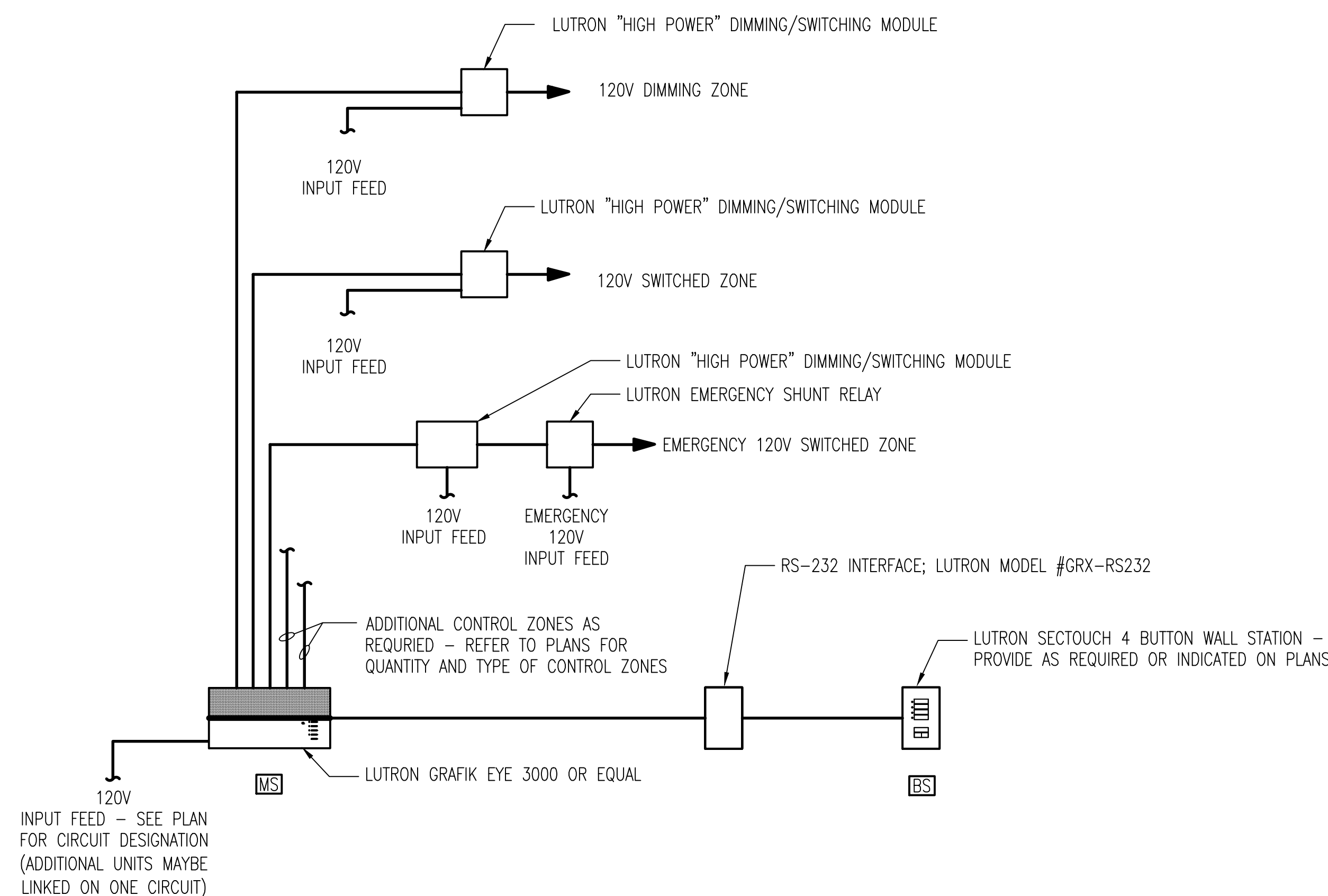
DETAIL BASED ON PRESCOLITE, ARCHITEKTUR SERIES

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
	1	42W CF	46	120/277 UNIVERSAL	RECESSED CEILING

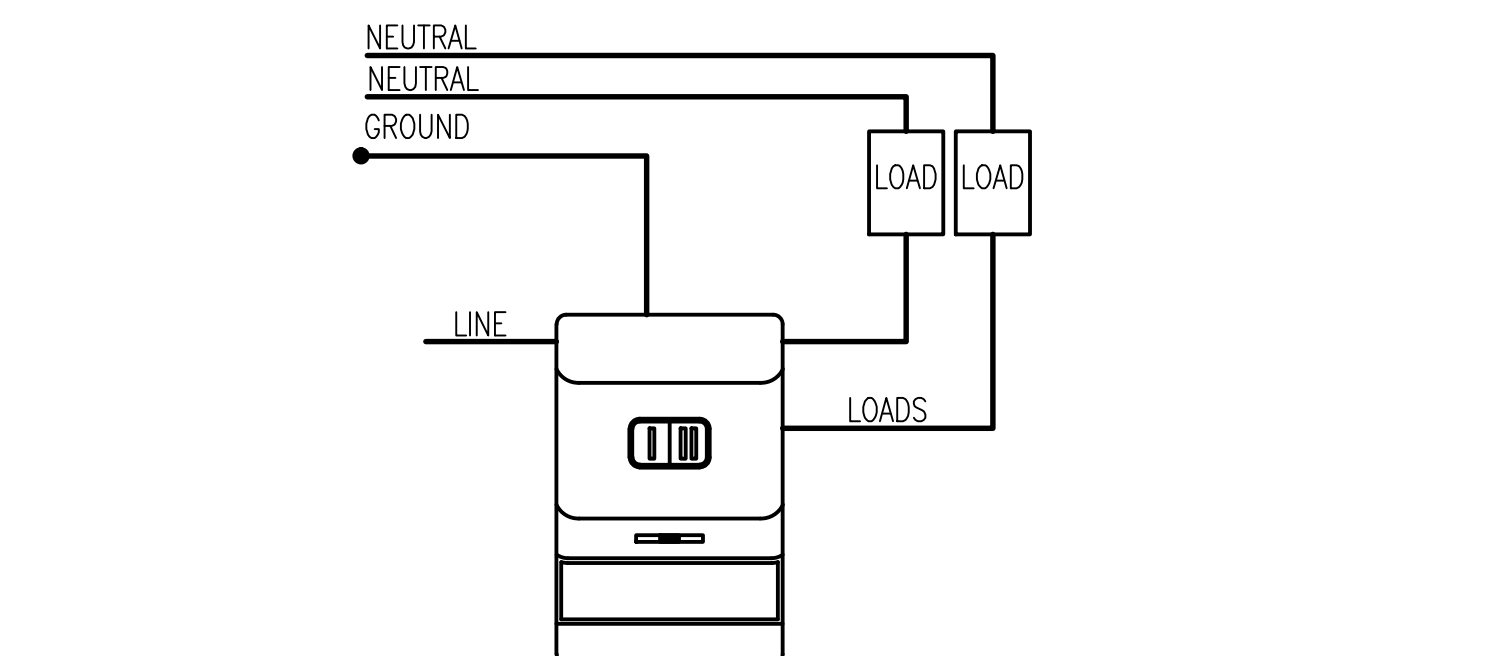
8" SEMI RECESSED DOWNLIGHT W/ DROP DISK



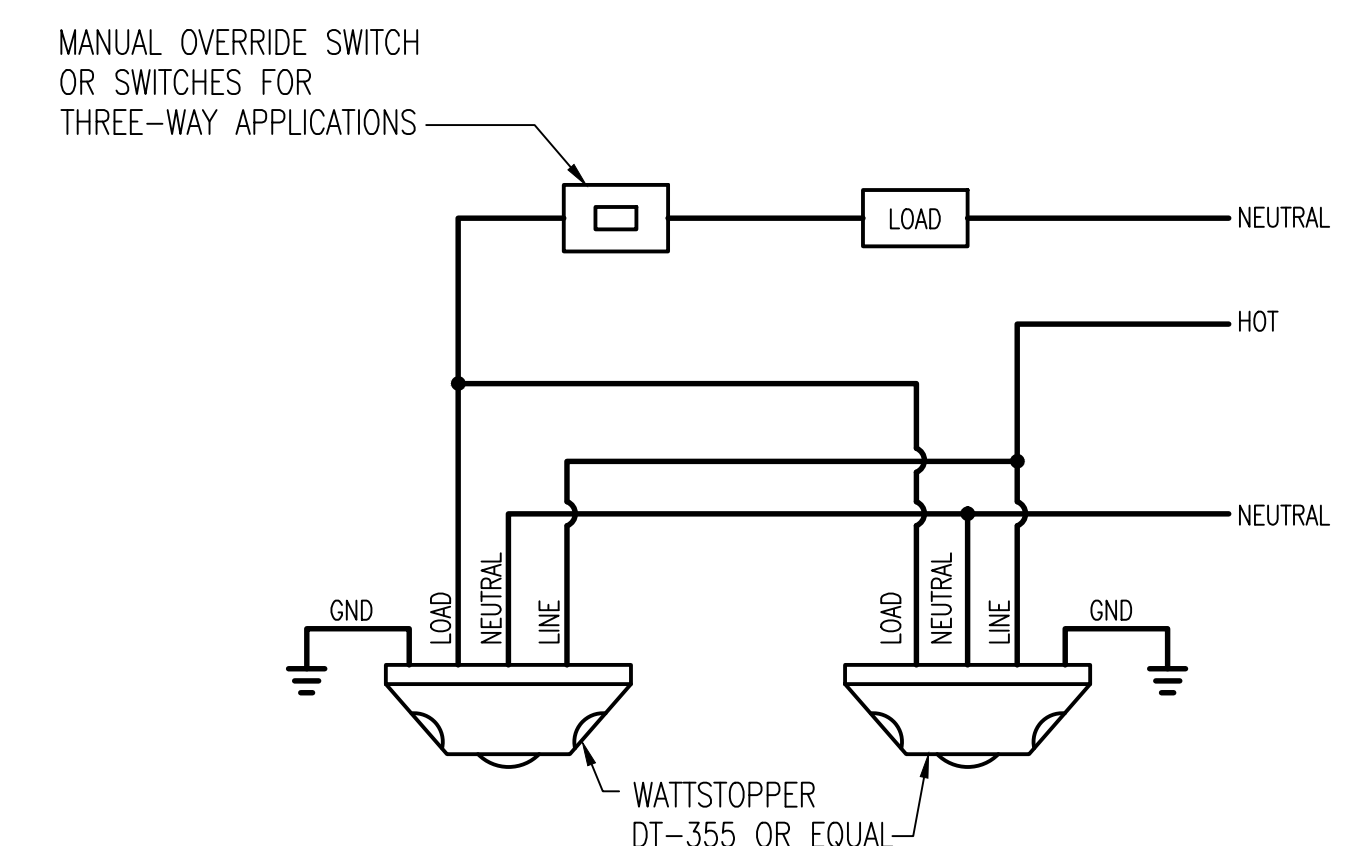
AUDIO/VISUAL SYSTEM RISER DIAGRAM



TYPICAL WALL STATION DIMMING SYSTEM RISER DIAGRAM



WALL MOUNTED OCCUPANCY SENSOR WIRING SCHEMATIC (DUAL LEVEL SWITCHING) (Soc)



TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM (OS)
NO SCALE

[illegible]

DEMOLITION PANELBOARD NL SCHEDULE															
100A MCB, 208/120 VOLT, 3 PHASE, 4 WIRE, 10 KAIC MINIMUM, SURFACE MOUNT, GROUND BUS															
	LOAD (AMPS)			BKR TRIP			PHASE			BKR TRIP			LOAD (AMPS)		
	A	B	C	1	2	3	A	B	C	1	2	3	A	B	C
LOAD SERVED															
LTS 303A				20/1P						2	20/1P				LTS 303B
LTS 303C				20/1P						4	20/1P				LTS 303D
LTS 303E				20/1P						6	20/1P				LTS 303
LTS 303F			*	20/1P						8	20/1P		*		HOT LAB RECEIPT
LTS 303G	*			20/1P						8	20/1P	*			SPARE
RECEPT 303A			*	20/1P						10	20/1P				PLUGMOLD 303C
PLUGMOLD 303A			*	20/1P						12	20/1P		*		RECEPT 303E
SPARE				20/1P						14	20/1P				RECEPT 303F-G
SPARE				20/1P						16	20/1P	*	*		RECEPT 303B
PLUGMOLD 303B			*	20/1P						18	20/1P		*		EWIC CORRIDOR
RECEPT 303B	*			20/1P						20	20/1P	*			RECEPT 303B
OXYGEN ALARM 303F		*	*	20/1P						22	20/1P	*	*		RECEPT 303B
SPARE				20/1P						24	20/1P				SPARE
AIR DRYER	*			20/1P						26	20/1P				FANCOIL UNIT 4TH FL
SPARE				20/1P						28	30/2P	*	*	*	CONTROL 4TH
POPCORN 303A			*	35/1P						32	20/1P				FLOOR #25
SPACE ONLY				20/1P						31					SPACE ONLY
SPACE ONLY				20/1P						34	20/1P				SPACE ONLY
SPACE ONLY				20/1P						36	20/1P				SPACE ONLY
MAIN	*			100/3P						37					
		*													
		*	*												
			*												
TOTAL	0.0	0.0	0.0										0.0	0.0	0.0
TOTAL CONNECTED AMPS				A: 0.0			B: 0.0			C: 0.0			TOTAL		

NOTES:
* EXISTING UNKNOWN LOAD.
CIRCUITS SHOWN BOLD ARE TO BE REMOVED COMPLETE.

PANELBOARD NL SCHEDULE														
100A MCB, 208/120 VOLT, 3 PHASE, 4 WIRE, 10 KAIC MINIMUM, SURFACE MOUNT, GROUND BUS														
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE			BKR TRIP	LOAD (AMPS)			LOAD SERVED	
	A	B	C			A	B	C		A	B	C		
LIGHTING	12.4			20/1P	1	2	20/1P		1.5				RECEPTILES	
RECEPTILES		9.0		20/1P	3	4	20/1P			3.0			REFRIGERATOR	
RECEPTILES			9.0	20/1P	5	6	20/1P				4.0		ICE MACHINE	
CAMERAS	4.0			20/1P	7	8	20/1P	1.5					RECEPTILES	
CONSOLE		4.0		20/1P	9	10	20/1P		1.5				RECEPTILES	
SENSORS			1.5	20/1P	11	12	20/1P				5.0		TELEVISIONS	
RECEPTILES	12.0			20/1P	13	14	20/1P						SHAR	
SHADES		11.5		20/1P	15	16	20/1P						SPARE	
SPARE				20/1P	17	18	20/1P					*	EWC CORRIDOR	
SPARE				20/1P	19	20	20/1P						SPARE	
SPARE				20/1P	21	22	20/1P						SPARE	
SPARE				20/1P	23	24	20/1P						SPARE	
AIR DRYER	*			20/1P	25	26	20/1P	*		*			FANCOIL UNIT 4TH FL	
SPARE				20/1P	27	28	30/2P						CONTROLS 4TH	
SPARE				35/1P	29						*		FLOOR #25	
SPACE ONLY				20/1P	31	32	20/1P						SPACE ONLY	
SPACE ONLY				20/1P	33	34	20/1P						SPACE ONLY	
SPACE ONLY				20/1P	35	36	20/1P						SPACE ONLY	
MAIN	*			100/3P	37			38						
		*												
			*											
TOTAL	28.4	24.5	10.5						3.0	4.5	9.0		TOTAL	
TOTAL CONNECTED AMPS				A: 31.4	B: 29.0				C: 19.5					

NOTES:
* EXISTING UNKOWN LOAD.

DEMOLITION PANELBOARD ES33 SCHEDULE													
100A MLO, 208/120 VOLT, 3 PHASE, 4 WIRE, 10 KAIC MINIMUM, SURFACE MOUNT, GROUND BUS													
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE			BKR TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C			A	B	C		A	B	C	
EXIT LIGHTS	*			20/1P	1	1	2	3	20/1P				LTS AUDITORIUM
EXIT LIGHTS, CANOPY		*		20/1P	3	1	2	3	20/1P	*			LIGHTING
RECEPTACLES			*	20/1P	5	1	2	3	20/1P			*	RECEPTACLES
RECEPTACLES	*			20/1P	7	1	2	3	20/1P	*			RECEPTACLES
PLUGMOLD		*		20/1P	9	1	2	3	20/1P		*		RECEPTACLES
PLUGMOLD			*	20/1P	11	1	2	3	20/1P			*	FLOOR RECP
SPARE				20/2P	13	1	2	3	20/1P	*			FLOOR RECP
				20/2P	17	1	2	3	20/1P				SPARE
SPACE ONLY													SPACE ONLY
TOTAL	0.0	0.0	0.0							0.0	0.0	0.0	TOTAL
TOTAL CONNECTED AMPS				A: 0.0			B: 0.0			C: 0.0			

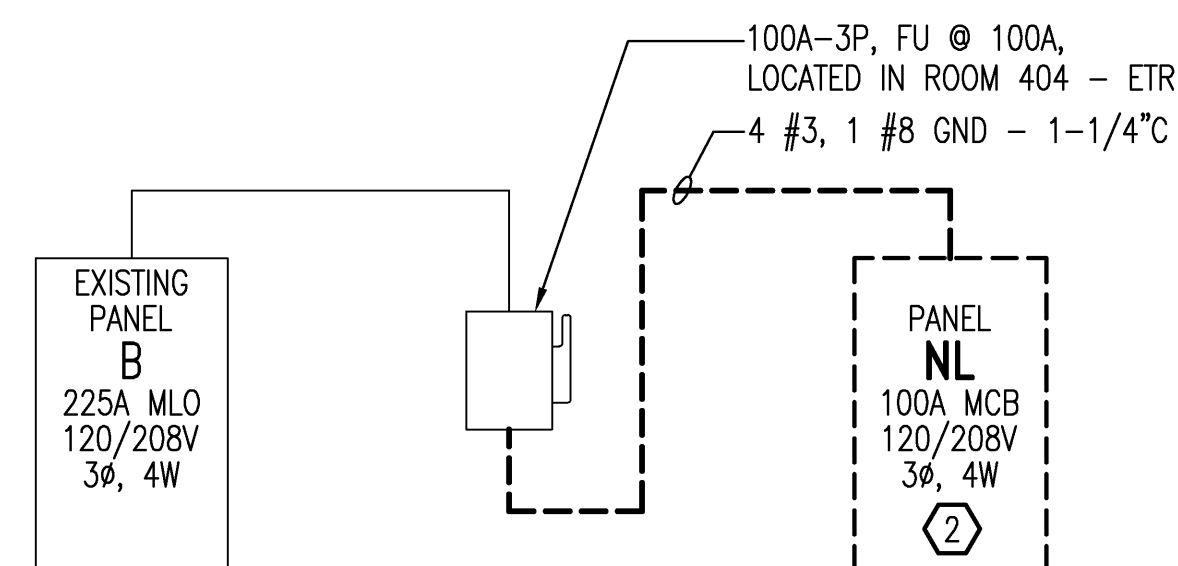
NOTES:
* EXISTING UNKNOWN LOAD.

PANELBOARD ES33 SCHEDULE														
100A MLO, 208/120 VOLT, 3 PHASE, 4 WIRE, 10 KAIC MINIMUM, SURFACE MOUNT, GROUND BUS														
LOAD SERVED	LOAD (AMPS)			BKR TRIP	NO.	PHASE		BKR TRIP	NO.	LOAD (AMPS)			LOAD SERVED	
	A	B	C			A	B			C	A	B		C
EXIT LIGHTS	*			20/1P	1	1	4	20/1P					LTS AUDITORIUM	
EXIT LIGHTS, CANOPY		*		20/1P	2	1	4	20/1P					LIGHTS	
RECEPTILES			*	20/1P	5	1	4	6	20/1P			*	RECEPTILES	
RECEPTILES	*			20/1P	7	1	4	8	20/1P	*			RECEPTILES	
PLUGMOLD			*	20/1P	9	1	4	10	20/1P		*		RECEPTILES	
PLUGMOLD			*	20/1P	11	1	4	12	20/1P			*	FLOOR RCPT	
SPARE				20/2P	13	1	4	14	20/1P	*			FLOOR RCPT	
						1	4	16	20/1P				SPARE	
						1	4	18	20/1P				SPACE ONLY	
SPACE ONLY										0.0	0.0	0.0	TOTAL	
TOTAL	0.0	0.0	0.0	TOTAL CONNECTED AMPS			A: 0.0	B: 0.0			C: 0.0			

NOTES:
* EXISTING UNKNOWN LOAD.

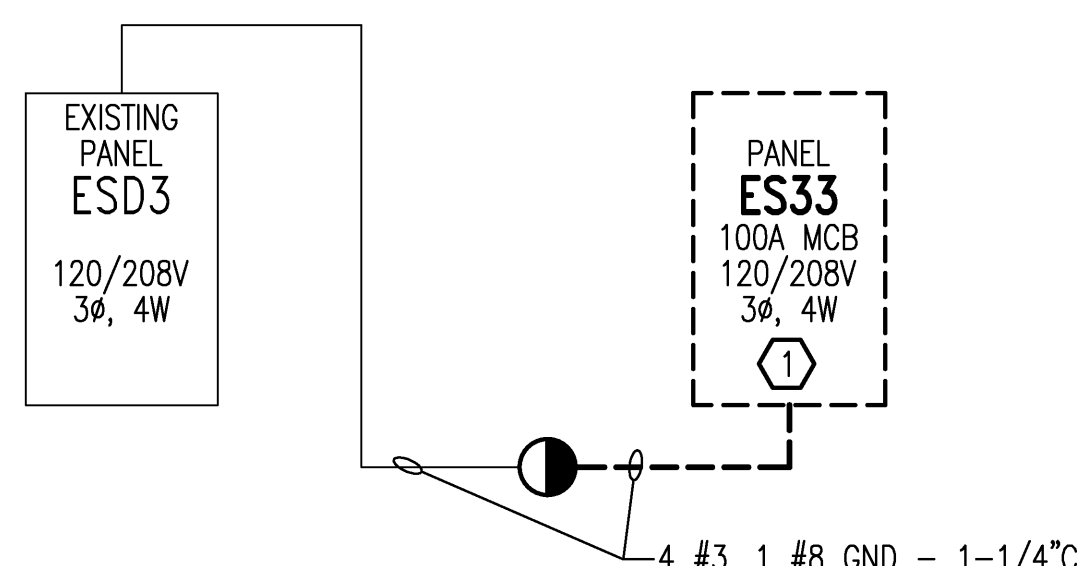
PHASING NOTE

CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR PANEL "NL" TO REMAIN IN SERVICE DURING DEMOLITION. PANEL SHALL REMAIN IN SERVICE UNTIL NEW PANEL "NL" IS IN PLACE TO BE ENERGIZED, COORDINATE BRANCH CIRCUIT OUTAGE WITH OWNER.



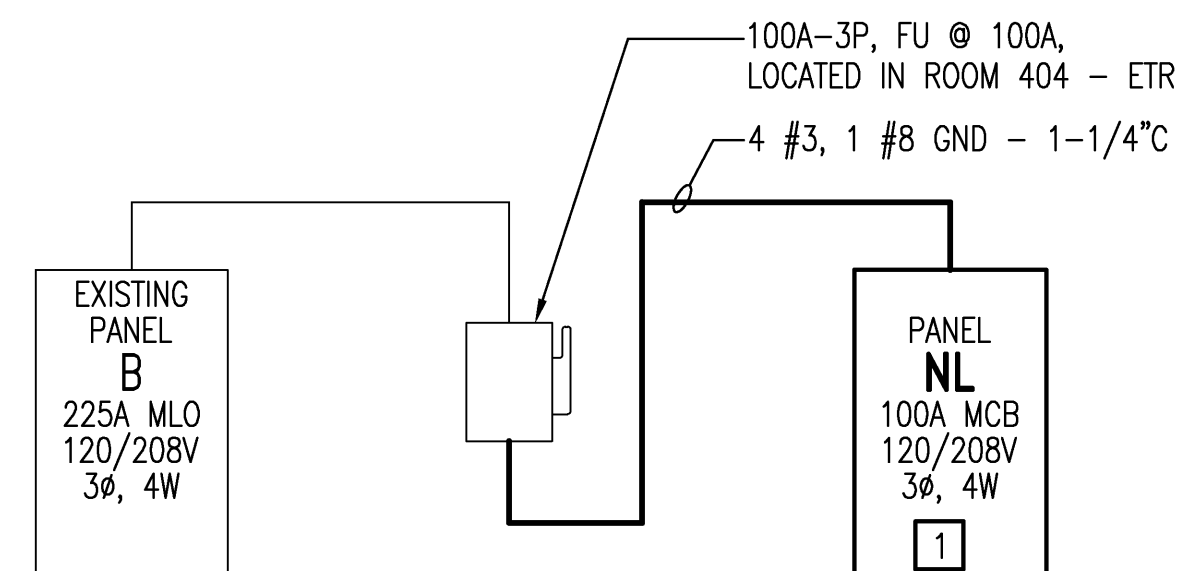
POWER RISER DIAGRAM – DEMOLITION

NO SCALE



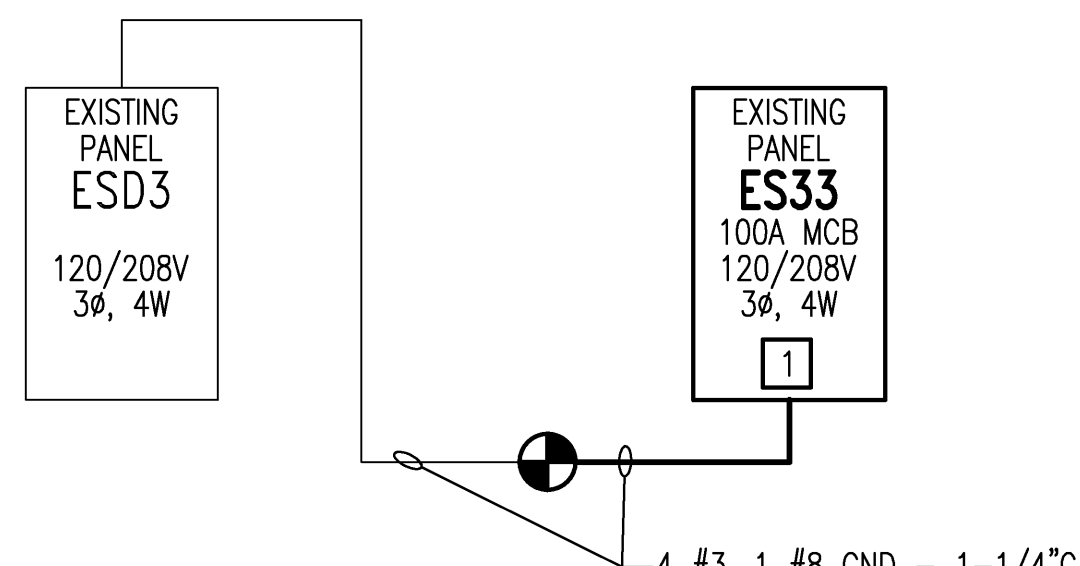
POWER RISER DIAGRAM – DEMOLITION

NO SCALE



POWER RISER DIAGRAM – NEW WORK

NO SCALE



POWER RISER DIAGRAM – NEW WORK

NO SCALE

DEMOLITION WORK NOTES

- ① CONTRACTOR TO REMOVE CIRCUITS TO ABOVE CEILING OR TO BELOW FLOOR DEPENDING ON CONDUIT ROUTING. CIRCUITS THAT ARE NOT BEING COMPLETELY DEMOLISHED SHALL BE REROUTED/EXTENDED TO REVISED PANELBOARD LOCATION. RETAIN PANELBOARD AND CIRCUIT BREAKERS FOR REUSE.
- ② CONTRACTOR TO REMOVE BRANCH CIRCUITS TO ABOVE CEILING OR TO BELOW FLOOR DEPENDING ON CONDUIT ROUTING. BRANCH CIRCUITS THAT ARE NOT BEING COMPLETELY DEMOLISHED SHALL BE REROUTED/EXTENDED TO REVISED PANELBOARD LOCATION. CONTRACTOR TO REMOVE FEEDER TO PANEL BACK TO SAFETY SWITCH.

NEW WORK NOTES

- 1 CONTRACTOR SHALL REWORK INTERCEPT CIRCUITS RETAINED FROM DEMOLITION AND EXTEND TO PANELBOARDS REVISED LOCATION. SEE SHEET E102 FOR PANELBOARD LOCATION. PROVIDE JUNCTION BOXES AS REQUIRED BY NEC TO EXTEND CIRCUITING.

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